

## Message Text

UNCLASSIFIED

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70

ACTION ARA-03

INFO OCT-01 ISO-00 /004 W

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O R 111920Z AUG 75

FM AMEMBASSY BRASILIA

TO AMCONSUL RIO DE JANEIRO IMMEDIATE

INFO SECSTATE WASHDC 0871

UNCLAS BRASILIA 6690

FOLLOWING MESSAGE RECEIVED FROM SECSTATE ON 08 AUG SENT ACTION  
LONDON PARIS BRASILIA PRETORIA CANBERRA BONN NEW DELHI OTTAWA AND  
TOKYO, NOW BEING REPEATED FOR YOUR NFORMATION.

QUOTE UNCLAS STATE 188124

E.O. 11652: N/A

TAGS: TSPA

SUBJECT: POTENTIAL FREQUENCY INTERFERENCE WITH VIKING  
ORBITER RECEIVER

REF. STATE A-4055

PASS DUTY OFFICER ASAP SATURDAY MORNING.

1. NASA REQUESTS POSTS RENDER ANY POSSIBLE ASSISTANCE TO  
AVOID A POTENTIAL RADIO INTERFERENCE PROBLEM IN CONNECTION  
WITH PLANNED LAUNCHINGS AUGUST 11 AND 21 OF TWO VIKING  
SPACECRAFT CONSISTING OF AN ORBITER AND LANDER WHICH ARE  
DESIGNED TO PERFORM SCIENTIFIC INVESTIGATIONS OF THE  
PLANET MARS DURING THE LATTER HALF OF 1976 FROM MARTIAN  
ORBIT AND ON MARTIAN SURFACE.

2. IN ORDER TO INCREASE DATA THAT CAN BE RETURNED BY  
LANDER, THE LANDER HAS BEEN DESIGNED TO RETURN DATA VIA  
ORBITER ACTING AS RELAY SATELLITE. ORBITER'S RELAY  
RADIO HAS SENSITIVE FRONT AND EVEN WITH RADIO TURNED  
OFF AND HAS RATHER BROAD BAND PASS TO ACHIEVE PERFORMANCE  
REQUIREMENTS. FREQUENCY SPECTRUM WHERE RECEIVER IS  
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VULNERABLE:

371 - 391 MHZ  
1400 - 1600 MHZ, AND  
2900 - 3100 MHZ

DAMAGE CAN RESULT FROM EFFECTIVE RADIATED POWER LEVELS ABOVE 130 DBM AT A SLANT RANGE OF 200 KILOMETERS TO THE SPACECRAFT. THIS SUSCEPTIBILITY COVERS CW, SWEPT CW, OR PULSED EMISSIONS.

3. CONCERN IS THAT GROUND BASED HIGH POWER RADAR OR RADIO STATIONS MAY CAUSE UNINTENTIONAL DAMAGE TO RECEIVER DURING LAUNCH PHASE OF FLIGHT.

4. THE LAUNCH PERIOD FOR THE TWO VIKING SPACECRAFT EXTENDS FROM 11 AUGUST 1975 TO 14 SEPTEMBER 1975. THE LAUNCH DATES CAN BE AFFECTED BY WEATHER OR TECHNICAL DELAYS. THEREFORE, AT THIS TIME WE REQUEST THAT, IF POSSIBLE, POST REQUEST AN IRRADIATION RESTRICTION BY HOST GOVERNMENTS WHICH COULD TAKE PLACE AT ANY OF FOLLOWING DATES AND TIMES:

LAUNCH	BEGINNING	ENDING		
DATE	GMT DAY	GMT TIME	GMT DAY	GMT TIME

11 AUG 1975	223	2100	224	0200
12 AUG 1975	224	2100	225	0200
13 AUG 1975	225	2100	226	0200

SEPTTEL WILL BE ISSUED IF VIKING AS IS NOT LAUNCHED IN THE THREE DAY PERIOD FROM 11 TO 13 AUGUST. SEPTTEL WILL BE SENT FOR VIKING B AFTER VIKING A IS LAUNCHED.

5. THE GEOMETRIC LAUNCH PROFILE FOLLOWS PATH FROM CAFE KENNEDY IN FLORIDA SE OVER ATLANTIC, OVER ASCENSION ISLAND CROSSING LOWER FOURTH OF AFRICA, SOUTHERN INDIAN OCEAN, COMING UP ACROSS NW PORTION OF AUSTRALIA, PAPUA-NEW GUINEA.

6. SPACECRAFT REACHES PARKING ORBIT ALTITUDE OF 90 MILES APPROXIMATELY 1200 DOWNRANGE FROM LIFTOFF.  
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7. NASA REQUESTS POSTS CONTACT HOST GOVERNMENTS EARLIEST POSSIBLE TIME AND REQUEST THEIR ASSISTANCE IN PROTECTING VIKING RECEIVER DURING THE LAUNCH PHASE. NASA WOULD APPRECIATE IT IF ANY PROBLEM RADIO SOURCES COULD BE TURNED OFF DURING THE INDICATED TIME.

8. FYI POSTS MAY WISH TO UTILIZE PROCEDURES DEVELOPED

IN CONNECTION WITH APOLLO-SOYUZ CONTIGENCY PLANS REFTEL  
ON FREQUENCY PROBLEMS. END FYI

9. REGRET LAST MINUTE NOTIFICATION THE SERIOUSNESS OF  
WHICH ONLY BECAME APPARENT THIS WEEK DURING FINAL CHECK-  
OUT REVIEWS. KISSINGER UNQUOTE.  
CRIMMINS

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NNN

## Message Attributes

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**Current Classification:** UNCLASSIFIED  
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Margaret P. Grafeld  
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**TAGS:** TSPA, BR, US  
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**Type:** TE  
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